UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,330	07/14/2003	Chuanxiong Guo	221782	6664

22801 7590 03/22/2007
LEE & HAYES PLLC
421 W RIVERSIDE AVENUE SUITE 500
SPOKANE, WA 99201

EXAMINER	
HAMZA, FARUK	
ART UNIT	**PAPER NUMBER**
2155	

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	03/22/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/22/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

lhptoms@leehayes.com

Office Action Summary	Application No.	Applicant(s)	
	10/619,330	GUO ET AL.	
	Examiner	Art Unit	
	Faruk Hamza	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *14 July 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-24* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-24* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *14 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *7/14/03,11/17/06*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the application filed on July 14, 2003. Claims 1-24 are pending.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1,12 and 20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1 and 12 recite "A computer-readable medium....." computer-readable medium in applicant's specification is not limited to tangible medium.

Claims 1,12 and 20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. *Claimed invention is not directed to a practical application. The claims do not require any physical transformation and the invention as claimed do not produce a useful, concrete and tangible result.*

Claims 2-11,13-19 and 21-24 have the same deficiency of their base claims.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12 recites the limitation "its" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Traversat et al. (U.S. Pub. No. 2002/0188657) hereinafter referred as Traversat.

Traversat teaches the invention as claimed including a system for uniquely identifying peers and other resources in a peer-to-peer networking environment. If peers change network addresses, the identifier may be bound to the new address. Thus, identifiers provide dynamic addressing for resources in the peer-to-peer environment (See abstract).

As to claim 1, Traversat teaches computer-readable medium having thereon computer-executable instructions for performing a method comprising maintaining, local to a peer participating in at least one communication connection, a local connection translation table, the local connection translation table comprising:

at least one original connection parameter of the at least one communication connection (P[0116],[0249],[0393],[0399],[0414]); and

at least one current connection parameter of the at least one communication connection (P[0116],[0249],[0393],[0399],[0414]).

As to claim 2, Traversat teaches the computer-readable medium of claim 1, wherein the local connection translation table further comprises at least one

original connection parameter and at least one current connection parameter for each active communication connection (P[0116],[0249],[0393],[0399],[0414]).

As to claim 3, Traversat teaches the computer-readable medium of claim 2, wherein:

each active communication connection comprises at least one data stream, and each data stream comprises at least one connection parameter of the communication connection (P[0116],[0249],[0393],[0399],[0414]); and

the method further comprises:

for each communication connection having an outbound data stream, translating the at least one connection parameter of the outbound data stream to the corresponding at least one current connection parameter of the local connection translation table (P[0116],[0249],[0393],[0399],[0414]); and

for each communication connection having an inbound data stream, translating the at least one connection parameter of the inbound data stream to the corresponding at least one original connection parameter of the local connection translation table (P[0116],[0249],[0393],[0399],[0414]).

As to claim 4, Traversat teaches the computer-readable medium of claim 3, wherein:

each data stream comprises at least one Internet protocol (IP) datagram; the at least one current connection parameter comprises a current local IP address (P[0153]); and

translating the at least one connection parameter of the outbound data stream to the corresponding at least one current connection parameter of the local connection translation table comprises replacing the source address of each outbound IP datagram with the current local IP address (P[0116],[0249],[0393],[0399],[0414]).

As to claim 5, Traversat teaches the computer-readable medium of claim 4, wherein:

the at least one current connection parameter further comprises a current remote IP address (P[0116],[0249],[0393],[0399],[0414]); and

translating the at least one connection parameter of the outbound data stream to the corresponding at least one current connection parameter of the local connection translation table further comprises:

replacing the destination address of each outbound IP datagram with the corresponding current remote IP address (P[0116],[0249],[0393],[0399],[0414]).

As to claim 6, Traversat teaches the computer-readable medium of claim 1, wherein the local connection translation table further comprises an original

connection specification and a current connection specification for each active communication connection, and each connection specification comprises:

a local network attachment point identifier (P[0116],[0249],[0393],[0399],[0414]); and

a remote network attachment point identifier (P[0116],[0249],[0393],[0399],[0414]).

As to claim 7, Traversat teaches the computer-readable medium of claim 6, wherein each network attachment point identifier comprises:

an Internet protocol (IP) address (P[0154]); and

a transmission control protocol (TCP) port (P[0154]).

As to claim 8, Traversat teaches the computer-readable medium of claim 6, wherein each network attachment point identifier comprises:

an Internet protocol (IP) address (P[0154]); and

a user datagram protocol (UDP) port (P[0154]).

As to claim 9, Traversat teaches the computer-readable medium of claim 6, wherein maintaining the local connection translation table comprises:

as a result of a local network attachment point change, for each entry in the local connection translation table, updating the local network attachment point identifier of the current connection specification of the local connection

translation table entry (P[0116],[0249],[0393],[0399],[0414]).

As to claim 10, Traversant teaches the computer-readable medium of claim 6, wherein the method further comprises receiving a Connection Update message, the Connection Update message comprising:

an original connection identifier (P[0116],[0249],[0393],[0399],[0414]); and

a new network attachment point identifier (P[0116],[0249],[0393],[0399],[0414]).

As to claim 11, Traversat teaches the computer-readable medium of claim 10, wherein maintaining the local connection translation table comprises:

as a result of receiving the Connection Update message, updating the remote network attachment point identifier of the current connection specification of the local connection translation table entry identified by the original connection identifier of the Connection Update message (P[0116],[0249],[0393],[0399],[0414]).

Claims 12-24 do not teach or define any new limitations other than above claims 1-11. Therefore, rejected for similar reasons.

5. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of

the applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in its entirety as potentially teaching of all or part of the claimed invention, as well as the context.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Manion et al. (U.S. Pub. No. 2004/0111469) discloses peer to peer graphing interfaces and methods.
- Gupta et al. (U.S. Patent Number 7,051,102) discloses peer to peer name resolution protocol.
- Traversat et al. (U.S. Patent Number 7,167,920) discloses peer to peer communication pipes.
- Hugly et al. (U.S. Pub. No. 2004/0030743) discloses system for describing and identifying abstract software modules in peer-to-peer network.
- Abdelaziz et al. (U.S. Pub. No. 2003/0041141) discloses peer to peer presence detection.
- Arora et al. (U.S. Pub. No. 2004/0064512) discloses instant messaging using distributed indexes.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faruk Hamza whose telephone number is 571-272-7969. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached at 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll –free).

Faruk Hamza

Patent Examiner

Group Art Unite 2155

SALEH NAJJAR
SUPERVISORY PATENT EXAMINER